

Abstract of the Disclosure

A device, preferably a micro-device, is molded from a plastic material by injection molding, compression molding or embossing. A microabrader can be molded having microneedles for abrading the stratum corneum of the skin to form an abraded site in the tissue for enhancing drug delivery. The micro-device is molded using a mold assembly having a silicon molding surface. The silicon molding surface can include a recess corresponding to the desired shape and length of the microneedles. The silicon molding surface enables micron and submicron size features to be molded from polymeric materials without the polymeric material adhering to the mold surface. Micro-devices having molded features having micron and submicron dimensions can be rapidly produced without the use of a release agent.